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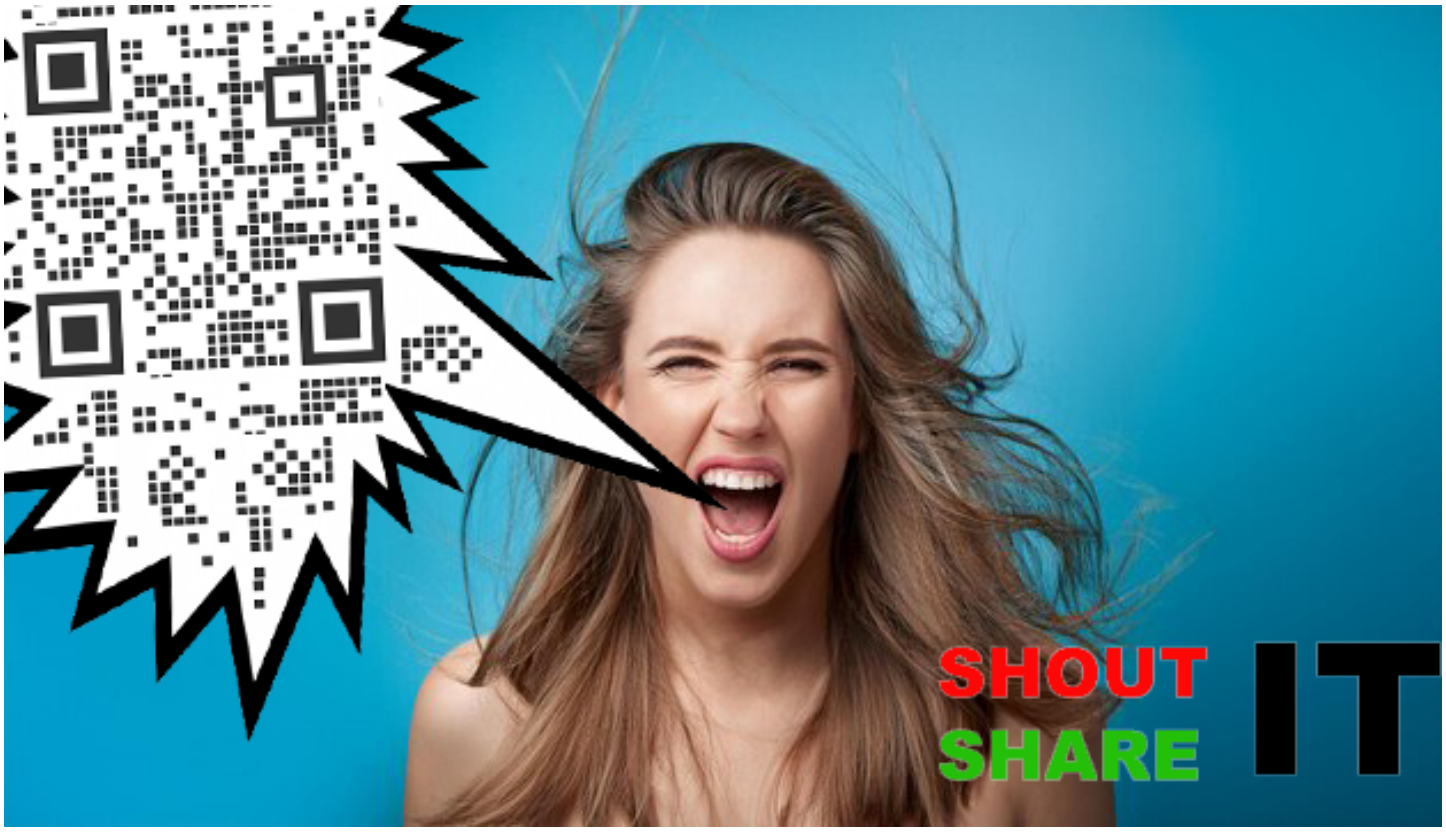
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BULLETIN OF THE
U.S. DEPARTMENT OF AGRICULTURE

No. 66

Contribution from the Bureau of Statistics, L. M. Estabrook, Chief.
March 10, 1914.

STATISTICS OF SUGAR IN THE UNITED STATES AND ITS INSULAR POSSESSIONS, 1881–1912.

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INTRODUCTION.

This bulletin was compiled primarily to have in convenient form data to answer numerous inquiries concerning the statistics of sugar in the United States and its insular possessions. Much of the data were obtained from existing publications, but it was found advisable to compile a number of new tables in order to present other facts of timely importance.

There was a great increase in the consumption of sugar in contiguous United States during the period covered by the bulletin, 1881–1912. The average consumption per capita in the latter part of this period was nearly double that of the early eighties. The average annual consumption, which in the fiscal years 1881–1885 was 46 pounds per capita, was more than 78 pounds in 1906–1910 (Table 2). The total annual consumption increased from an average of 2,500,000,000 pounds in 1881–1885 to practically 7,000,000,000 pounds in 1901–1910, and in the fiscal year 1912, to a total of 7,900,000,000 pounds (Table 2).

The large increase in consumption was coincident with a greater home production. The cane-sugar output increased considerably, while beet sugar, the production of which amounted to little in the early eighties, far exceeded that of cane sugar in contiguous United States in the last few years. The term "contiguous" applies to the United States proper, and excludes all outlying possessions.

The sugar supply of the United States proper has always been derived chiefly from abroad, and, even with a greatly increased home production in 1906–1910, the portion of supply received from domestic factories made only 23 per cent of the total consumption; this was more than twice the corresponding percentage for 1881–1885. The insular possessions—Hawaii, Porto Rico, and the Philippine

NOTE.—This bulletin, which indicates the amount and sources of the sugar supply of the United States, is of especial interest in sugar-producing regions, also to persons concerned with problems of food supply.

Islands—furnished nearly 22 per cent, and the rest, amounting to 55 per cent, came from foreign countries during 1906–1910.

The beet-sugar industry in the United States is not localized, as is the cane-sugar industry. Beets are grown and beet sugar is made in localities more or less scattered, in various regions extending all the way from Ohio to California, including on the north Minnesota and Montana and at the south Arizona. About two-thirds of the beet sugar made in the United States comes from the factories of California, Colorado, and Michigan. In 1912, the year of highest production up to date, 73 factories were in operation, with an average output of 9,500 short tons per factory for the campaign. The year before, the 66 factories then in operation made an average of about 9,000 tons each. The beet-sugar campaign averages from 80 to 90 days a year.

While cane is produced in considerable quantities in the Southern States, especially in those bordering the Gulf of Mexico, it is not used for manufacture into sugar to any noteworthy extent except in Louisiana and a few localities in Texas. Throughout most of the cane-producing area sirup, not sugar, is made. Census returns indicate that the output of cane sirup in contiguous United States increased from 13,000,000 gallons in 1899 to 23,000,000 gallons in 1909. Molasses, a by-product of sugar making, increased from 12,000,000 gallons in 1899 to 25,000,000 gallons 10 years later (Table 9).

All but a small fraction of the domestic cane sugar in contiguous United States comes from the southeastern quarter of Louisiana. Production in this State within the past few years has exceeded 340,000, and even 350,000, short tons annually, showing that the industry has been a progressive one, the output in earlier years having been much less. In 1912, however, owing to floods which injured cane fields, the Louisiana production dropped to about 154,000 short tons, while the number of factories in operation was only 126 as compared with 188 in the previous campaign. The length of the campaign was also reduced to about 30 days' actual operation in 1912 as compared with more than twice that time in 1911. A large part of the sugar made in Louisiana factories is shipped to New Orleans, most of it reaching that city about the last of December, which is practically the end of the sugar-making season. During the past five years more than three-fourths of the total receipts of Louisiana sugar at New Orleans arrived there before the end of December.

Data collected by the United States Department of Agriculture show that in 1911 about 2,000 pounds of sugar on an average were made from an acre of cane in Louisiana. This refers only to cane used for sugar and does not include that used for seed, which amounts to an average of about 1 acre in a total of 5, nor does it include cane used for sirup making. In the same year an acre of beets, in the

United States, yielded on an average about 2,500 pounds of sugar. In Hawaii the average yield of sugar per acre of cane used for manufacture amounted to about 8,700 pounds in the campaign beginning in the fall of 1910, and about 9,500 pounds in the campaign of the following year. The crop failure in Louisiana in 1912 reduced the average yield of sugar to less than 1,400 pounds per acre of cane. The average yield per acre of beet sugar in that year in the United States was about the same as in 1911 (Table 5).

Imports of foreign sugar into the United States, a very small fraction of which is received into the island possessions, come principally from Cuba and the Dutch East Indies (Tables 19 and 20). In 1901–1905 considerable amounts, nearly 24 per cent of the total imports into the United States, came from British Guiana, Brazil, Santo Domingo, Peru, British West Indies, and Germany, but during the next five-year period these countries supplied only about 7.5 per cent. In 1906–1910, Cuba's share in this trade increased to 73 per cent; in 1901–1905 it was 50 per cent of the total. Nearly all the sugar imported into the United States, and practically all that comes from the insular possessions, is raw (Table 21). Scarcely one-tenth of 1 per cent of the total imports during 1911 and 1912 consisted of refined sugar. The chief ports through which foreign sugar comes into the United States are New York, Philadelphia, Boston, New Orleans, and San Francisco (Table 22).

The output of the Hawaiian and Porto Rican sugar mills is sent almost exclusively to the United States; only a small fraction, about 10 per cent in the case of Porto Rico and 1 or 2 per cent in the case of Hawaii, is retained for home consumption (Table 23). Some details concerning the Hawaiian industry are reported regularly to the Bureau of Statistics of the United States Department of Agriculture. In the past several years 50 factories have been in operation. Nominally the campaign begins on October 1 and continues for varying lengths of time in the different factories; the average duration of the campaign in all the factories in 1911–12 was 200 working days. One or more factories have reported operations continuing practically throughout the year (Table 24).

As in contiguous United States so in the possessions, the production of sugar has increased greatly. The Hawaiian cane-sugar output is roughly commensurate in quanitity with the beet-sugar production of contiguous United States; the Porto Rican production is roughly commensurate with that of Louisiana; while the surplus from the Philippine Islands, as represented by exports, is equal approximately to one-half of the Porto Rican crop. Of the sugar-producing countries of the world the United States with its insular possessions ranks among the first four. In the campaign 1911–12, owing to greatly increased crops in this country and its possessions and to low yields in Europe, the United States was second, being

exceeded only by British India. This large home production furnishes a little more than one-half of the home supply, the rest being brought from abroad. The United States leads all countries as an importer of sugar (Table 28).

Somewhat more than one-half of the "world" output of sugar is made from cane. According to Table 30, the proportion of cane sugar increased from 50.8 per cent of the total in the five years ending with 1905–6, to 53.3 per cent in the next five-year period. Measured in short tons, the cane-sugar product of the world increased from a yearly average of 7,200,000 tons in the first five-year period to 8,800,000 in the second; while beet sugar increased from 7,000,000 tons in the first to 7,700,000 in the second period shown in Table 30.

Of the leading countries of production, Cuba, Dutch East Indies (chiefly Java), and Germany are leaders in the export sugar trade of the world.

TABLE 1.—*Production of sugar in the United States and its insular possessions, 1881–1912.*[1]

Year of cane or beet harvest.	Beet.	Cane.							
	Chiefly refined.	Raw (as coming from factories).						Total beet and raw cane.	Total beet and cane in terms of refined.[3]
	Contiguous United States.	Contiguous United States.[2]	Hawaii.	Porto Rico.	Philippine Islands (exports).	Total raw cane.	Total cane in terms of refined.[3]		
	Short tons.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
Average:									
1881–1885	692	132,148	76,075	87,441	189,277	484,941	436,447	485,633	437,139
1886–1890	1,922	171,488	125,440	70,112	186,129	553,169	497,852	555,091	499,774
1891–1895	19,406	275,289	162,538	63,280	286,629	787,736	708,962	807,142	728,368
1896–1900	58,286	286,805	282,585	61,292	134,722	765,404	688,864	823,690	747,150
1901–1905	239,730	364,179	403,308	141,478	108,978	1,017,943	916,149	1,257,673	1,155,879
1906–1910	479,153	362,208	516,041	282,136	145,832	1,306,217	1,175,596	1,785,370	1,654,749
1901	184,606	364,325	355,611	103,152	75,011	898,099	808,289	1,082,705	992,895
1902	218,406	372,903	437,991	100,576	123,108	1,034,578	931,120	1,252,984	1,149,526
1903	240,604	278,070	367,475	138,096	82,855	866,496	779,846	1,107,100	1,020,450
1904	242,113	414,995	426,248	151,088	125,271	1,117,602	1,005,842	1,359,715	1,247,955
1904 (census)	*253,921*								
1905	312,920	390,602	429,213	214,480	138,645	1,172,940	1,055,646	1,485,860	1,368,566
1906	483,612	272,160	440,017	206,864	132,602	1,051,643	946,479	1,535,255	1,430,091
1907	463,628	394,240	521,123	230,095	167,242	1,312,700	1,181,430	1,776,328	1,645,058
1908	425,884	414,400	535,156	277,093	123,876	1,350,525	1,215,473	1,776,409	1,641,357
1909	512,469	375,200	517,090	346,786	140,783	1,379,859	1,241,873	1,892,328	1,754,342
1909 (census)	*501,682*	*334,202*		*283,223*					
1910	510,172	355,040	566,821	349,840	164,658	1,436,359	1,292,723	1,946,531	1,802,895
1911	599,500	360,874	595,038	371,076	205,046	1,532,034	1,378,831	2,131,534	1,978,331
1912	692,556	162,574	546,524						

[1] Sources of data for contiguous United States for individual years: Cane sugar, 1881–1903 from Bouchereau; 1904–1906 from Bouchereau (for Louisiana) and Willett & Gray (for Texas); 1906–1910 from Willett & Gray; 1911 and 1912 from U. S. Department of Agriculture (for Louisiana) and Willett & Gray (for Texas). Beet sugar, 1897, 1901–1912, from U. S. Department of Agriculture; for other years from Willett & Gray. Hawaii: 1881–1884 from Rueb & Co.; 1885–1900 from Willett & Gray; 1901–1910 from Hawaiian Sugar Planters' Association; 1911 and 1912, U. S. Department of Agriculture. Porto Rico: 1881–1884 from Rueb & Co.; 1885–1889 from Willett & Gray; figures for 1900–1906 represent shipments from Porto Rico to the United States; 1907 and subsequent years (crops) from Treasury Department of Porto Rico. Philippine Islands (exports): 1894–1898 from Willett & Gray; other years from official sources.

[2] The term "contiguous" applies to the United States proper, and excludes all outlying possessions.

[3] Raw sugar reduced to terms of refined by assuming 90 pounds of refined to be the product of 100 pounds of raw.

TABLE 2.—*Production and consumption of sugar in contiguous United States, 1881–1912.*[1]

Year ending June 30—	Production. (Raw and refined.)	Receipts from foreign countries and noncontiguous possessions. (Chiefly raw.)	Shipments to foreign countries and noncontiguous possessions. (Chiefly refined).	Retained and received for consumption. (Chiefly raw.)	
				Total.	Per capita.
Average:	*Pounds.*	*Pounds.*	*Pounds.*	*Pounds.*	*Pounds.*
1881–1885	262,144,884	2,309,773,359	85,134,562	2,486,783,681	46.30
1886–1890	305,758,426	2,844,564,763	101,544,811	3,048,778,378	50.76
1891–1895	568,556,653	3,745,227,214	50,651,458	4,263,132,409	64.23
1896–1900	652,723,591	3,900,700,448	24,664,782	4,528,759,257	62.02
1901–1905	1,070,361,108	4,687,554,122	23,551,287	5,734,363,943	70.93
1906–1910	1,615,021,531	5,430,205,887	82,171,200	6,963,056,218	78.29
1901	795,938,283	4,803,085,602	14,015,102	5,585,008,783	71.96
1902	1,097,862,181	3,936,286,281	15,175,805	5,018,972,657	63.35
1903	1,182,617,560	5,217,077,034	19,529,092	6,380,165,502	78.92
1904	1,007,161,087	4,696,347,312	41,607,988	5,661,900,411	68.66
1905	1,268,226,430	4,784,974,378	27,428,446	6,025,772,362	71.66
1906	1,391,921,228	5,136,478,685	37,105,110	6,491,294,803	75.74
1907	1,511,544,000	5,621,004,778	42,879,843	7,089,668,935	81.19
1908	1,715,736,430	4,918,772,831	43,686,270	6,590,822,991	74.11
1909	1,680,568,000	5,700,675,377	97,879,825	7,283,363,552	80.43
1910	1,775,338,000	5,774,097,763	189,304,952	7,360,130,811	79.85
1911	1,730,425,000	5,594,985,191	89,436,445	7,235,973,746	77.15
1912	[2]1,920,748,000	6,044,322,872	102,862,003	[2]7,862,208,869	[2]82.40

[1] Compiled from the Statistical Abstract of the United States, Bureau of Foreign and Domestic Commerce, Department of Commerce. Data for production for years ending June 30, 1904, 1905, and 1906, include cane-sugar production as estimated by Willet & Gray, which figures are lower than the estimates of Bouchereau, which are used in Tables 1 and 4, of this circular. If Bouchereau's estimates were substituted for Willett & Gray's in the above table, the figures for 1904, 1905, and 1906, respectively, would be: For production, 1,037,309,087, 1,314,226,430, and 1,407,041,228 pounds; and for consumption per capita, 69.02, 72.21, and 75.92 pounds. See also note 2, Table 1.

[2] Revised figures; substituted for the preliminary figures given in the original.

TABLE 3.—*Percentage of total supply of sugar in contiguous United States represented by home production, by receipts from insular possessions, and by imports from foreign countries, 1881–1912.*[1]

[Chiefly raw.]

Year ending June 30—	Production in contiguous United States.			Received from Hawaii, Porto Rico, and Philippine Islands.	Imports less exports.[2] (Net receipts from foreign countries.)	Retained and received for consumption.
	Beet.	Cane.	Total.			
	Per cent.	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*
1881	[3]	13.0	13.0	14.4	72.6	100
1882	[3]	8.0	8.0	16.3	75.7	100
1883	[3]	13.2	13.2	15.9	70.9	100
1884	[3]	10.2	10.2	18.8	71.0	100
1885	0.1	8.4	8.5	18.9	72.6	100
1886	.1	10.7	10.8	20.5	68.7	100
1887	.1	6.1	6.2	19.1	74.7	100
1888	[3]	12.5	12.5	20.5	67.0	100
1889	.1	11.2	11.3	16.5	72.2	100
1890[4]	.2	9.4	9.6	17.6	72.8	100
1891	.2	12.8	13.0	9.0	78.0	100
1892	.3	9.5	9.8	11.2	79.0	100
1893	.6	11.7	12.3	12.0	75.7	100
1894	.9	12.4	13.3	10.7	76.0	100
1895	1.0	16.9	17.9	9.2	72.9	100
1896	1.5	12.1	13.6	12.9	73.5	100
1897	1.5	11.5	13.0	10.5	76.5	100
1898	2.6	20.4	23.0	18.1	58.9	100
1899	1.6	12.3	13.9	13.5	72.6	100
1900[4]	3.7	7.2	10.9	14.0	75.1	100
1901	3.1	11.2	14.3	14.9	70.8	100
1902	7.4	14.5	21.9	18.2	59.9	100
1903	6.8	11.7	18.5	16.0	65.5	100
1904	8.5	9.3	17.8	18.7	63.5	100
1905	8.0	13.0	21.0	19.6	59.4	100
1906	9.6	11.8	21.4	18.9	59.7	100
1907	13.6	7.7	21.3	17.7	61.0	100
1908	14.1	11.9	26.0	24.0	50.0	100
1909	11.7	11.4	23.1	21.9	55.0	100
1910	13.9	10.2	24.1	25.2	50.7	100
1911	14.1	9.8	23.9	26.1	50.0	100
1912[5]	15.3	9.2	24.5	30.2	45.3	100
Average:						
1881–1885	[3]	10.5	10.5	17.1	72.4	100
1886–1890	.1	9.9	10.0	18.8	71.2	100
1891–1895	.6	12.7	13.3	11.1	75.6	100
1896–1900	2.1	12.3	14.4	13.5	72.1	100
1901–1905	6.8	11.9	18.7	17.4	63.9	100
1906–1910	12.6	10.6	23.2	21.6	55.2	100

[1] Partly computed and partly copied from Statistical Abstract of the United States. For explanation of production figures for years ending June 30, 1904–1906, see note 1, Table 2. See also note 2, Table 1.
[2] Excluding trade with Hawaii, Porto Rico, and Philippine Islands.
[3] Less than 0.05 of 1 per cent.
[4] Census figures for production.
[5] Revised figures for production and consumption substituted for the preliminary figures given in original.

TABLE 4.—*Comparison of cane and beet sugar produced in contiguous United States, 1881–1912.*[1]

[In terms of refined sugar. Raw sugar has been reduced to terms of refined by assuming 90 pounds of refined to be the product of 100 pounds of raw.]

Year of cane or beet harvest.	Cane sugar.		Beet sugar.		Total.
	Quantity.	Per cent of total.	Quantity.	Per cent of total.	
Average:	*Short tons.*	*Per cent.*	*Short tons.*	*Per cent.*	*Short tons.*
1881–1885	118,934	99.4	692	0.6	119,626
1886–1890	154,339	98.8	1,922	1.2	156,261
1891–1895	247,760	92.7	19,406	7.3	267,166
1896–1900	258,124	81.6	58,286	18.4	316,410
1901–1905	327,761	57.8	239,730	42.2	567,491
1906–1910	325,987	40.5	479,153	59.5	805,140
1901	327,892	64.0	184,606	36.0	512,498
1902	335,612	60.6	218,406	39.4	554,018
1903	250,263	51.0	240,604	49.0	490,867
1904	373,496	60.7	242,113	39.3	615,609
1905	351,542	52.9	312,920	47.1	664,462
1906	244,944	33.6	483,612	66.4	728,556
1907	354,816	43.4	463,628	56.6	818,444
1908	372,960	46.7	425,884	53.3	798,844
1909	337,680	39.7	512,469	60.3	850,149
1910	319,536	38.5	510,172	61.5	829,708
1911	324,787	35.1	599,500	64.9	924,287
1912	146,316	17.4	692,556	82.6	838,872

[1] For sources see Note 1, Table 1. See also Note 2, Table 1.

TABLE 5.—*Average yield of refined sugar per acre of beets or cane in contiguous*[1] *United States, and of cane in Hawaii.*

[Raw cane sugar has been reduced to terms of refined by assuming 90 pounds of refined to be equivalent to 100 pounds of raw.]

Item.	Pounds per acre.	Item.	Pounds per acre.	Item.	Pounds per acre.	Item.	Pounds per acre.
BEET SUGAR.		BEET SUGAR—continued.		BEET SUGAR—continued.		BEET SUGAR—continued.	
United States:		Colorado:		Utah and Idaho:		Other States:	
1901	2,109	1904	2,802	1904	2,678	1904	2,189
1902	2,019	1905	2,133	1905	1,783	1905	1,626
1903	1,984	1906	3,014	1906	3,124	1906	1,893
1904	2,448	1907	2,652	1907	3,020	1907	1,895
1905	2,036	1908	2,047	1908	2,794	1908	2,115
1906	2,572	1909	2,455	1909	2,948	1909	2,051
1907	2,499	1910	2,533	1910	2,642	1910	2,200
1908	2,334	1911	2,888	1911	3,294	1911	2,367
1909	2,439	1912	2,979	1912	2,962	1912	2,359
1910	2,563						
1911	2,530						
1912	2,494						
California:		Michigan:		Wisconsin:		CANE SUGAR.	
1904	2,845	1904	1,931	1904	2,484		
1905	2,850	1905	1,708	1905	2,035	Louisiana:	
1906	3,084	1906	1,886	1906	2,263	1911	2,023
1907	3,082	1907	1,918	1907	2,561	1912	1,348
1908	2,886	1908	2,104	1908	2,493	Hawaii:	
1909	3,067	1909	1,890	1909	2,453	1910–11	8,720
1910	3,091	1910	2,370	1910	2,162	1911–12	9,478
1911	3,241	1911	1,721	1911	2,034		
1912	2,852	1912	1,530	1912	2,306		

[1] See note 2, Table 1.

TABLE 6.—*Sugar-beet and beet-sugar production of the United States, 1901–1912, by principal States.*

State and year.	Factories in operation.	Sugar beets.			Sugar made. (Chiefly refined.)		Average extraction of sugar based on weight of beets.	Average sugar in beets.	Average purity coefficient of beets.[1]	Average length of campaign.
		Area harvested.	Beets used for sugar.	Average per acre.						
California:	*No.*	*Acres.*	*Short tons*	*Short tons.*	*Pounds.*	*Short tons.*	*Per cent.*	*Per cent.*	*Per cent.*	*Days.*
1904		32,801	395,452	12.06	93,311,900	46,656	11.80	15.74	81.13	79.5
1905		51,857	514,391	9.92	147,786,900	73,893	14.37	17.27	81.33	91.5
1906	8	60,141	671,571	11.17	185,480,000	92,740	13.81	16.70	82.70	115.0
1907	8	47,387	484,816	10.23	146,045,500	73,023	15.06	17.90	85.10	73.0
1908	8	62,302	647,085	10.39	179,780,000	89,890	13.89	17.66	83.20	88.0
1909	10	83,000	882,084	10.63	254,544,000	127,272	14.43	17.61	83.62	102.0
1910	8	90,500	923,100	10.20	279,780,000	139,890	15.15	18.20	82.78	114.0
1911	10	99,545	1,037,283	10.42	322,600,000	161,300	15.55	18.95	82.04	98.5
1912	11	111,416	1,004,328	9.01	317,808,000	158,904	15.82	18.79	83.99	90.0
Colorado:										
1904		44,456	550,359	12.38	124,553,800	62,277	11.32	15.64	82.46	87.1
1905		85,916	875,154	10.19	183,216,900	91,608	10.47	14.71	81.79	101.1
1906	15	110,943	1,487,383	13.41	334,386,000	167,193	11.24	14.70	80.30	132.0
1907	16	127,678	1,523,303	11.93	338,573,000	169,286	11.11	15.30	81.50	127.0
1908	15	119,475	1,108,961	9.28	244,560,000	122,280	11.03	13.85	81.80	78.0
1909	16	121,698	1,256,771	10.33	298,810,000	149,405	11.89	14.24	80.51	85.0
1910	13	81,412	864,474	10.62	206,184,000	103,092	11.93	15.19	83.40	63.0
1911	14	86,437	957,142	11.07	249,600,000	124,800	13.04	15.44	81.22	63.3
1912	17	144,999	1,641,861	11.32	432,020,000	216,010	13.16	16.19	84.81	91.0
Michigan:										
1904		53,777	433,428	8.06	103,864,830	51,932	11.98	15.13	85.47	46.8
1905		77,823	531,475	6.83	132,917,999	66,459	12.50	15.65	84.67	58.9
1906	16	93,984	805,309	8.57	177,214,000	88,607	11.00	14.50	83.20	85.0
1907	16	88,334	696,785	7.89	169,452,000	84,726	12.16	15.10	84.70	70.0
1908	16	81,073	611,295	7.54	170,598,000	85,299	13.95	17.11	84.80	61.0
1909	16	112,232	819,923	7.31	212,106,000	106,053	12.93	17.00	86.21	74.0
1910	17	117,500	1,207,700	10.28	278,430,000	139,215	11.53	16.08	86.15	100.0
1911	17	145,837	1,443,856	9.90	251,000,000	125,500	8.69	14.59	59.55	122.0
1912	16	124,241	838,784	6.75	190,098,000	95,049	11.33	14.72	83.75	74.0
Utah and Idaho:										
1904		27,750	318,500	11.48	74,315,900	37,158	11.67	14.82	83.24	77.5
1905		44,550	367,660	8.25	79,428,000	39,714	10.80	14.25	82.58	57.0
1906	9	44,058	611,792	13.89	137,646,000	68,823	11.25	15.70	84.30	109.0
1907	9	54,601	597,239	10.94	164,901,700	82,451	13.81	17.00	87.20	102.0
1908	9	52,141	604,875	11.60	145,690,000	72,845	12.04	14.97	85.50	102.0
1909	8	46,727	618,621	13.24	137,756,000	68,878	11.13	15.51	85.20	106.0
1910	8	39,945	416,329	10.42	105,518,000	52,759	12.67	16.31	86.54	66.0
1911	9	51,002	648,677	12.72	168,020,000	84,010	12.95	16.20	79.42	94.0
1912	10	56,952	615,749	10.81	168,664,000	84,332	13.70	16.65	86.83	87.0
Wisconsin:										
1904		9,500	108,000	11.37	23,600,000	11,800	10.90	14.54	83.51	88.6
1905		14,000	124,000	8.86	28,487,029	14,244	11.49	15.00	83.00	85.0
1906	4	15,560	158,600	10.19	35,220,000	17,610	11.10	13.60	83.00	83.0
1907	4	11,837	122,800	10.37	30,320,000	15,160	12.35	15.10	85.60	61.0
1908	4	14,700	137,800	9.37	36,640,000	18,320	13.30	16.72	84.50	71.0
1909	4	14,000	143,000	10.21	34,340,000	17,170	12.01	15.88	85.17	63.0
1910	4	16,772	153,327	9.14	36,260,000	18,130	11.82	16.75	84.14	76.0
1911	4	23,241	256,124	11.02	47,280,000	23,640	9.23	14.23	64.86	106.0
1912	4	20,172	207,085	10.27	46,520,000	23,260	11.23	15.10	84.31	90.0
Other States:										
1904		29,500	265,800	9.01	64,580,000	32,290	12.15	15.36	83.12	85.5
1905		33,218	253,233	7.62	54,004,400	27,002	10.66	14.04	81.10	85.2
1906	11	51,388	501,457	9.76	97,278,000	48,639	9.70	14.00	80.90	111.0
1907	10	41,147	342,928	8.33	77,964,230	38,982	11.37	15.10	82.30	70.0
1908	10	35,222	304,875	8.65	74,500,000	37,250	12.22	15.22	82.00	54.0
1909	11	42,605	360,983	8.47	87,382,000	43,691	12.10	15.09	83.21	61.0
1910	11	51,900	482,362	9.29	114,172,000	57,086	11.83	15.66	82.69	68.0
1911	12	67,815	719,251	10.61	160,500,000	80,250	11.16	15.16	73.60	83.0
1912	15	97,520	916,570	9.40	230,002,000	115,001	12.55	15.70	83.18	86.0

[1] Percentage of sucrose (pure sugar) in the total soluble solids of the beets.

TABLE 6.—*Sugar-beet and beet-sugar production of the United States, 1901–1912, by principal States*—Continued.

State and year.	Factories in operation.	Sugar beets.			Sugar made. (Chiefly refined.)		Average extraction of sugar based on weight of beets.	Average sugar in beets	Average purity coefficient of beets.[1]	Average length of campaign.
		Area harvested.	Beets used for sugar	Average per acre.						
United States:	*No.*	*Acres.*	*Short tons.*	*Short tons.*	*Pounds.*	*Short tons.*	*Per cent*	*Per cent.*	*Per cent.*	*Days.*
1901	36	175,083	1,685,689	9.63	369,211,733	184,606	10.95	14.80	82.20	88.0
1902	41	216,400	1,895,812	8.76	436,811,685	218,406	11.52	14.60	83.30	94.0
1903	49	242,576	2,076,494	8.56	481,209,087	240,604	11.59	15.10	.....	75.0
1904	48	197,784	2,071,539	10.47	484,226,430	242,113	11.69	15.33	83.10	78.0
1905	52	307,364	2,665,913	8.67	625,841,228	312,921	11.74	15.33	83.00	76.6
1906	63	376,074	4,236,112	11.26	967,224,000	483,612	11.42	14.90	82.20	105.0
1907	63	370,984	3,767,871	10.16	927,256,430	463,628	12.30	15.80	83.60	89.0
1908	62	364,913	3,414,891	9.36	851,768,000	425,884	12.47	15.74	83.50	74.0
1909	65	420,262	4,081,382	9.71	1,024,938,000	512,469	12.56	16.10	84.11	83.0
1910	61	398,029	4,047,292	10.17	1,020,344,000	510,172	12.61	16.35	84.35	83.0
1911	66	473,877	5,062,333	10.68	1,199,000,000	599,500	11.84	15.89	73.92	94.0
1912	73	555,300	5,224,377	9.41	1,385,112,000	692,556	13.26	16.31	84.49	86.0
Average:										
1901–1905	45	227,841	2,079,089	9.13	479,460,033	239,730	11.51	15.03	82.89	82.0
1906–1910	63	386,052	3,909,510	10.13	958,306,086	479,153	12.26	15.78	83.55	87.0

TABLE 7.—*Production and farm value of sugar beets in contiguous United States, 1899–1912, and in principal States, 1899, 1909, 1911, and 1912.*

[Except where otherwise stated, data refer to beets used in factories, as reported to the United States Department of Agriculture.]

State and year.	Production.	Average farm price per ton.	Farm value.	State and year.	Production.	Average farm price per ton.	Farm value.
California:	*Short tons.*	*Dollars.*	*Dollars.*	Other States:	*Short tons.*	*Dollars.*	*Dollars.*
1899[1]	356,535	[2] 4.35	1,550,346	1899[1]	128,875	[2] 3.91	503,539
1909[1]	845,191	[2] 5.11	4,320,532	1909[1]	554,708	[2] 5.07	2,812,713
1911	1,037,283	5.54	5,746,548	1911	975,375	5.47	5,332,869
1912	1,004,328	6.46	6,487,959	1912	1,123,655	5.61	6,299,469
Colorado:				United States:			
1899[1]	6,656	[2] 4.01	26,711	1899[1]	793,353	[2] 4.19	3,323,240
1909[1]	1,231,712	[2] 4.92	6,061,152	1901	1,685,689	4.50	7,585,600
1911	957,142	5.55	5,312,138	1902	1,895,812	5.03	9,535,934
1912	1,641,861	5.96	9,785,492	1903	2,076,494	4.97	10,320,175
Michigan:				1904	2,071,539	[3] 4.95	10,254,118
1899[1]	215,373	[2] 4.07	877,481	1905	2,665,913	[3] 5.00	13,329,565
1909[1]	707,639	[2] 5.67	4,014,123	1906	4,236,112	[3] 5.10	21,604,171
1911	1,443,856	5.74	8,287,733	1907	3,767,871	[3] 5.20	19,592,929
1912	838,784	5.69	4,772,681	1908	3,414,891	[3] 5.35	18,269,667
Idaho and Utah:				1909[1]	3,932,857	[2] 5.06	19,880,724
1899[1]	85,914	[2] 4.25	365,163	1910	4,047,292	.....	.....
1909[1]	593,607	[2] 4.50	2,672,204	1911	5,062,333	5.50	27,842,832
1911	648,677	4.88	3,163,544	1912	5,224,377	5.82	30,405,874
1912	615,749	4.97	3,060,273				

[1] Total beets produced. From United States Census of Agriculture.
[2] Computed by dividing total tons produced into total farm value.
[3] Senate Document 22; Sixty-first Congress, first session.

TABLE 8.—*Sugar-cane area and production in the United States, 1909, by principal States and counties.*

[Census.]

State and county.	Area.	Production.	Average yield per acre.
	Acres.	*Short tons.*	*Short tons.*
Alabama:			
Barbour	953	7,815	8.2
Bullock	627	5,211	8.3
Butler	747	7,194	9.6
Chambers	914	7,865	8.6
Chilton	548	4,648	8.5
Choctaw	520	4,462	8.6
Clarke	768	6,180	8.0
Coffee	938	7,402	7.9
Conecuh	600	4,737	7.9
Covington	786	7,250	9.2
Crenshaw	674	5,405	8.0
Dale	840	7,489	8.9
Elmore	620	5,116	8.3
Geneva	1,012	11,259	11.1
Henry	658	9,064	13.8
Houston	1,004	12,007	12.0
Lee	523	5,077	9.7
Monroe	699	6,743	9.6
Montgomery	619	4,465	7.2
Perry	676	4,982	7.4
Pike	668	5,359	8.0
Russell	588	4,296	7.3
Sumter	543	3,055	5.6
Tallapoosa	514	6,541	12.7
Wilcox	1,269	9,578	7.5
Other counties	8,903	63,434	7.1
Total	27,211	226,634	8.3
Arkansas:			
Ashley	392	3,023	7.7
Clark	296	1,170	4.0
Columbia	359	2,110	5.9
Drew	269	1,779	6.6
Howard	226	969	4.3
Sevier	203	1,277	6.3
Union	637	4,768	7.5
Other counties	948	4,772	5.0
Total	3,330	19,868	6.0
Florida:			
Alachua	577	6,143	10.6
Gadsden	935	12,053	12.9
Hillsboro	589	8,163	13.9
Jackson	1,049	9,798	9.3
Jefferson	609	3,995	6.6
Leon	564	5,096	9.0
Madison	660	7,108	10.8
Marion	551	2,448	4.4
Suwannee	826	11,106	13.4
Other counties	6,568	76,607	11.7
Total	12,928	142,517	11.0
Georgia:			
Berrien	907	7,924	8.7
Brooks	898	10,025	11.2
Bullock	1,842	15,245	8.3
Burke	578	3,970	6.9
Coffee	560	4,312	7.7
Colquitt	708	5,589	7.9
Decatur	1,194	13,138	11.0
Effingham	592	4,050	6.8
Emanuel	1,073	5,324	5.0
Grady	2,181	21,514	9.9
Jefferson	817	5,297	6.5
Johnson	590	3,725	6.3
Laurens	817	9,761	11.9
Georgia—Contd.			
Liberty	1,295	7,822	6.0
Montgomery	757	9,367	12.4
Pierce	535	5,087	9.5
Screven	572	6,917	12.1
Thomas	1,259	21,938	17.4
Upson	716	5,141	7.2
Washington	1,194	7,396	6.2
Wilcox	574	3,891	6.8
Worth	514	4,412	8.6
Other counties	16,873	135,615	8.0
Total	37,046	317,460	8.6
Louisiana:			
Ascension	9,628	137,674	14.3
Assumption	27,852	491,743	17.7
Avoyelles	7,335	128,155	17.5
East Baton Rouge	2,107	38,068	18.1
Iberia	36,585	433,778	11.9
Iberville	20,764	359,369	17.3
Jefferson	2,104	31,101	14.8
Lafayette	12,218	171,059	14.0
Lafourche	33,200	562,538	16.9
Orleans	1,653	27,057	16.4
Plaquemines	6,643	108,996	16.4
Pointe Coupee	3,806	72,435	19.0
Rapides	7,452	127,670	17.1
St. Bernard	2,335	25,090	10.7
St. Charles	6,757	110,871	16.4
St. James	20,526	312,001	15.2
St. John the Baptist	12,669	232,268	18.3
St. Landry	6,423	94,050	14.6
St. Martin	11,365	144,799	12.7
St. Mary	42,324	504,010	11.9
Terrebonne	23,797	435,615	18.3
Vermilion	7,637	86,664	11.3
West Baton Rouge	10,271	176,800	17.2
Other parishes	14,233	130,185	9.1
Total	329,684	4,941,996	15.0
Mississippi:			
Amite	843	10,711	12.7
Attala	755	6,250	8.3
Clarke	625	5,281	8.4
Copiah	943	7,907	8.4
Hinds	1,166	8,046	6.9
Holmes	755	7,292	9.7
Jasper	635	5,779	9.1
Jefferson Davis	515	7,446	14.5
Jones	1,010	7,075	7.0
Kemper	577	5,273	9.1
Lafayette	563	1,791	3.2
Lauderdale	643	6,433	10.0
Lawrence	515	7,896	15.3
Leake	554	4,545	8.2
Lincoln	1,045	9,118	8.7
Neshoba	521	3,751	7.2
Newton	584	5,696	9.8
Pike	1,111	13,406	12.1
Rankin	564	4,685	8.3
Simpson	689	4,884	7.1
Other counties	10,248	89,335	8.7
Total	24,861	222,600	9.0

TABLE 8.—*Sugar-cane area and production in the United States, 1909, by principal States and counties*—Continued.

State and county.	Area.	Production.	Average yield per acre.
	Acres.	*Short tons.*	*Short tons.*
North Carolina:			
Brunswick	5	40	8.0
Columbus	91	648	7.1
Pender	75	238	3.2
Robeson	123	568	4.6
Total	294	1,494	5.1
South Carolina:			
Bamberg	398	3,519	8.8
Barnwell	545	6,348	11.6
Clarendon	329	1,972	6.0
Colleton	495	3,502	7.1
Hampton	682	6,820	10.0
Orangeburg	1,107	12,531	11.3
Other counties	3,497	25,173	7.2
Total	7,053	59,865	8.5
Texas:			
Brazoria	2,037	26,288	12.9
Cameron	1,604	34,451	21.5
Cass	567	4,433	7.8
Colorado	1,324	12,803	9.7
Fayette	579	1,391	2.4
Fort Bend	6,775	90,827	13.4
Guadalupe	573	1,071	1.9
Nacogdoches	612	3,765	6.2
Rusk	892	5,589	6.3
Shelby	956	4,748	5.0
Smith	605	3,231	5.3
Wharton	4,714	36,434	7.7
Wood	518	5,985	11.6
Other counties	12,559	76,486	6.1
Total	34,315	307,502	9.0
Other States	127	324	2.6
United States	476,849	6,240,260	13.1

TABLE 9.—*Production of cane sirup and cane molasses in the United States, 1899–1909, by principal States.*[1]

[By "sirup" is meant the liquid cane product from which no sugar has been extracted; by "molasses"[1] is meant the liquid cane product from which more or less sugar has been extracted.]

State.	1899	1909
	Farm and factory production.	Farm production.[2]
Sirup.	*Gallons.*	*Gallons.*
Georgia	3,226,367	5,533,520
Louisiana	2,480,856	4,125,083
Alabama	2,672,438	3,078,531
Mississippi	1,413,219	2,920,519
Florida	1,687,452	2,533,096
Texas	888,637	2,246,774
South Carolina	805,064	881,558
Arkansas	44,819	286,637
North Carolina	1,957	21,677
Other States	438	6,184
Louisiana	.....	[3] 942,997
Other States	.....	[3] 506,863
Total sirup	13,221,247	23,083,439

State.	1899	1909
	Farm and factory production.	Farm production.[2]
Molasses.	*Gallons.*	*Gallons.*
All States	.....	4,153
Louisiana	11,703,877	[3] 24,342,555
Texas	98,950	[3] 425,810
Total molasses	11,802,827	24,772,518
Total sirup and molasses	25,024,074	47,855,957

[1] Census. [2] Farm production except as noted. [3] Factory production.

TABLE 10.—*Production of cane sugar in Louisiana, 1849–1912, by principal parishes.*[1]

[Chiefly raw sugar.]

Parish.	1849	1859	1869	1879	1889	1898	1899	1910	1911	1912
	Short tons.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
Ascension	6,719	8,044	3,212	6,714	13,569	16,386	6,004	13,529	14,496	8,342
Assumption	8,580	8,854	4,779	5,966	16,859	26,162	13,523	31,907	35,950	14,457
Iberia	.....	.....	927	3,200	5,991	17,404	11,125	33,383	29,949	10,999
Iberville	11,604	5,414	2,454	7,636	15,533	17,693	7,305	28,246	23,759	7,942
Lafourche	5,028	7,368	3,564	5,592	10,826	28,345	19,391	42,639	42,001	11,728
St. James	10,835	6,868	3,132	7,125	10,539	21,644	10,939	21,687	20,760	9,368
St. John the Baptist	5,968	2,490	2,481	4,807	6,285	12,972	8,231	13,206	14,935	11,289
St. Martin	2,094	3,750	747	1,626	2,141	5,574	3,077	10,377	13,719	5,382
St. Mary	12,382	15,366	3,296	8,268	17,018	52,384	26,659	54,397	57,602	25,597
Terrebonne	4,586	8,511	3,268	6,876	11,490	25,144	19,981	30,392	27,462	14,463
West Baton Rouge	3,960	5,088	403	3,162	10,136	12,893	3,883	15,164	17,235	9,328
Avoyelles, Rapides, and St. Landry	7,522	9,984	2,818	3,042	4,832	5,983	1,833	3,848	3,558	2,423
East Baton Rouge, Pointe Coupee, and West Feliciana	7,817	8,832	1,191	4,150	4,402	5,950	1,596	5,229	9,928	2,237
Jefferson, Orleans, Plaquemines, and St. Charles	18,716	15,596	7,292	14,907	13,739	24,244	18,789	19,714	18,040	5,471
Lafayette and Vermilion	1,750	1,276	194	963	1,641	4,663	5,895	18,277	23,480	14,547
Other parishes	5,439	3,422	595	1,819	1,061	1,056	1,352	.....	.....	.....
Total	113,000	110,863	40,353	85,853	146,062	278,497	159,583	341,995	352,874	153,573

[1] Data for 1911 and 1912 from Bureau of Statistics, United States Department of Agriculture; 1910 from Louisiana Sugar Planters' Association; other years from Census. Census data refer to parishes in which the cane was grown; other data (1910–1912) refer to parishes in which the sugar was made.

TABLE 11.—*Sugar made, factories operated, and cane used for sugar in Louisiana, 1911 and 1912, by principal parishes.*

Parish.	Factories in operation.		Average days in operation.[1]	Sugar made (chiefly raw).				Cane used for sugar.[1]	
				Quantity.		Average per short ton of cane.[1]			
	1911	1912	1912 [2]	1911	1912	1911	1912	1911	1912
	No.	*No.*	*Days.*	*Short tons.*	*Short tons.*	*Pounds.*	*Pounds.*	*Short tons.*	*Short tons.*
Ascension	7	7	29	14,496	8,342	124	134	234,719	124,934
Assumption	23	16	29	35,950	14,457	107	119	673,263	243,864
Iberia	13	9	27	29,949	10,999	129	156	464,491	140,932
Iberville	18	11	26	23,759	7,942	99	112	481,545	141,581
Lafourche	16	9	23	42,001	11,728	119	122	707,764	191,714
St. James	20	10	32	20,760	9,368	115	97	361,537	192,537
St. John the Baptist	8	5	42	14,935	11,289	108	140	275,536	161,790
St. Martin	4	3	31	13,719	5,382	139	173	197,614	62,165
St. Mary	26	15	34	57,602	25,597	133	176	866,744	291,387
Terrebonne	14	14	28	27,462	14,463	124	150	442,218	191,984
West Baton Rouge	10	10	26	17,235	9,328	110	147	314,472	127,196
Avoyelles, Rapides, and St. Landry	5	5	35	3,558	2,423	101	136	70,534	35,629
East Baton Rouge, Pointe Coupee, and West Feliciana	6	3	36	9,928	2,237	116	187	171,763	23,916
Jefferson, Orleans, Plaquemines, and St. Charles	13	3	37	18,040	5,471	125	160	288,665	68,365
Lafayette and Vermilion	5	6	33	23,480	14,547	140	177	336,427	164,580
Louisiana	188	126	30	352,874	153,573	120	142	5,887,292	2,162,574

[1] Computed from incomplete returns.

[2] This campaign was unusually short, owing to the small crop. In 1911 the average time from beginning to end of campaign was 74 days for the entire State.

TABLE 12.—*Area of sugar cane, of other principal crops, and of total improved farm land in Louisiana, 1909, by principal sugar-producing parishes.*

[Census.]

Parish.	Acreage of 5 principal crops.						Improved land in farms.
	Sugar cane.	Cotton.	Rice.	Corn.	Hay and forage.	Total 5 crops.	
	Acres.	*Acres.*	*Acres.*	*Acres.*	*Acres.*	*Acres.*	*Acres.*
Ascension	9,628	7,277	4,867	17,730	2,050	41,552	57,119
Assumption	27,852	244	.....	19,888	7,542	55,526	54,069
Avoyelles	7,335	26,634	1,810	58,847	2,946	97,572	126,440
East Baton Rouge	2,107	23,812	565	26,701	5,617	58,802	103,481
Iberia	36,585	3,252	3,912	44,476	5,267	93,492	121,436
Iberville	20,764	1,839	4,559	20,203	5,275	52,640	64,422
Jefferson	2,104	.....	1,075	1,595	962	5,736	14,196
Lafayette	12,218	19,929	2,508	67,317	4,830	106,802	141,762
Lafourche	33,200	.....	1,402	28,479	10,902	73,983	86,281
Orleans	1,653	.....	.....	762	73	2,488	5,187
Plaquemines	6,643	.....	7,222	2,774	1,039	17,678	30,397
Pointe Coupee	3,806	18,164	4,176	53,071	7,342	86,559	115,829
Rapides	7,452	15,420	22	39,526	8,797	71,217	108,742
St. Bernard	2,335	.....	725	941	1,913	5,914	9,882
St. Charles	6,757	4	4,287	4,874	562	16,484	21,250
St. James	20,526	99	4,551	12,150	7,315	44,641	48,755
St. John the Baptist	12,669	.....	4,655	6,534	2,979	26,837	29,438
St. Landry	6,423	55,169	21,592	126,257	2,903	212,344	327,623
St. Martin	11,365	14,699	581	37,900	2,504	67,049	87,320
St. Mary	42,324	6	400	27,436	17,454	87,620	102,938
Terrebonne[1]	23,797	.....	38	15,745	10,168	49,748	49,428
Vermilion	7,637	15,733	29,595	53,075	1,696	107,736	177,824
West Baton Rouge	10,271	3,350	3,397	13,515	2,087	32,620	39,866
Total, 23 parishes	315,451	205,631	101,939	679,796	112,223	1,415,040	1,923,685
All other parishes	14,233	751,380	215,579	911,034	68,588	1,960,814	3,352,331
Total, Louisiana	329,684	957,011	317,518	1,590,830	180,811	3,375,854	5,276,016

[1] For this parish the census shows 320 less acres in "improved land" than in the 5 principal crops—apparently an error.

TABLE 13.—*Percentage of cane acreage in Louisiana reserved for seed, 1909, 1910, and 1911.*[1]

Year.	Number of plantations reporting.	Total area.	Saved for seed.	
			Area.	Per cent of total.
	Number.	*Acres.*	*Acres.*	*Per cent.*
1909	28	14,832	3,641	24.5
1910	38	18,037	3,651	20.2
1911	56	32,075	6,519	20.3
Mean	.....	.....	.....	21.7

[1] Computed from report on The Sugar Industry, by F. J. Sheridan, Department of Commerce (Miscellaneous series No. 9) p. 2.

TABLE 14.—*Proportion of acreage of plant cane to other cane and average yield per acre of cane used for sugar in Louisiana and Hawaii, 1911 and 1912.*

[In Louisiana each planting of cane is generally allowed to bear two annual crops, while in Hawaii three annual crops are generally cut from each planting. The figures in this table refer only to cane used for sugar, thus excluding cane reserved for planting and that used for sirup.]

Item.	Plant cane (1st cutting).		Stubble or rattoon cane (2d and later cuttings).[1]		Total.	Average yield of cane per acre.
	Quantity.	Per cent of total.	Quantity.	Per cent of total.		
Louisiana:	*Acres.*	*Per cent.*	*Acres.*	*Per cent.*	*Acres.*	*Short tons.*
1911	168,000	54	146,000	46	314,000	18.7
1912	118,000	58	87,000	42	205,000	10.5
Hawaii:						
1910–11	43,900	38	73,100	62	117,000	41.3
1911–12	37,200	33	75,800	67	113,000	42.3

[1] The term "stubble" is used in Louisiana and "rattoon" in Hawaii to refer to the second or later crops grown from the same planting from which a first crop ("plant" cane) has been harvested.

TABLE 15.—*Seasonal receipts at New Orleans of Louisiana sugar, 1901–2 to 1912–13.*[1]

Year.	From Sept. 1 to last Friday in—								Year, Sept. 1 to Aug. 31.
	October.		November.		December.		March.		
	Quantity.	Per cent of year's receipts.	Quantity.	Per cent of year's receipts.	Quantity.	Per cent of year's receipts.	Quantity.	Per cent of year's receipts.	
	Short tons.	*Per cent.*	*Short tons.*	*Per cent.*	*Short tons.*	*Per cent.*	*Short tons.*	*Per cent.*	*Short tons.*
1901–2	13,367	4.5	88,938	30.2	173,571	58.8	267,092	90.6	[2] 294,941
1902–3	9,672	3.4	81,608	28.6	191,558	67.2	253,986	89.1	[3] 285,031
1903–4	5,159	2.7	60,138	31.8	155,045	81.9	175,991	93.0	189,330
1904–5	8,579	2.6	80,764	24.5	197,847	60.1	281,744	85.5	329,339
1905–6	9,481	3.0	94,134	29.6	189,472	59.6	283,510	89.2	317,868
1906–7	2,367	1.4	52,723	30.2	121,533	69.6	161,239	92.4	174,561
1907–8	2,010	.7	86,661	28.8	198,407	65.9	275,195	91.4	301,158
1908–9	11,062	3.9	111,060	39.3	221,286	78.2	252,899	89.4	282,800
1909–10	8,275	3.1	96,350	36.4	215,349	81.4	247,521	93.6	264,560
1910–11	2,893	1.1	81,076	29.9	225,584	83.3	265,782	98.1	270,865
1911–12	16,703	5.9	105,968	37.5	192,630	68.1	258,418	91.4	282,815
1912–13	9,085	7.2	69,707	55.0	115,930	91.5	120,230	94.9	126,706
Average:									
1901–2 to 1905–6	9,252	3.3	81,116	28.6	181,499	64.1	252,465	89.1	283,302
1906–7 to 1910–11	5,321	2.1	85,574	33.1	196,432	75.9	240,527	92.9	258,789

[1] Compiled from Willett & Gray's Weekly Statistical Sugar Trade Journal.
[2] To Aug. 29.
[3] To Aug. 26.

TABLE 16.—*Average cost of producing cane sugar in Louisiana, 1909, 1910, and 1911.*[1]

Item.	Per ton of cane used.			Per pound of sugar made.		
	1909	1910	1911	1909	1910	1911
COST OF PRODUCING CANE.						
Planting and cultivating	$0.500	$0.740	$0.774			
Harvesting	.739	.757	.799			
Other, including repairs, maintenance, supplies, taxes, insurance, etc.[2]	2.911	2.810	2.428			
Total	4.150	4.307	4.001			
COST OF MAKING SUGAR.						
Cost of cane delivered at factory	4.182	4.090	4.530	$0.0267	$0.0277	0.0340
Manufacturing labor	.331	.324	.340	.0021	.0022	.0025
Repairs and maintenance	.334	.371	.341	.0022	.0025	.0025
Other operating expenses, including supplies, taxes, insurance, office expenses, etc	.811	.713	.635	.0052	.0048	.0049
Total	5.658	5.498	5.846	.0362	.0372	.0439
Cost of selling sugar	.288	.246	.226	.0018	.0017	.0016
Total cost of manufacture and sale	5.946	5.744	6.072	.0380	.0389	.0455
Gross receipts from sale of sugar	6.856	6.198	6.462	.0438	.0420	.0485

[1] From report on The Sugar Industry, by F. J. Sheridan, Department of Commerce (Miscellaneous series No. 9), pp. 3 and 72.
[2] Excluding interest and depreciation.

TABLE 17.—*Monthly prices of sugar per pound at New York and New Orleans, 1909–1912.*[1]

FINE AND STANDARD GRANULATED, AT NEW YORK, N. Y.

Month.	1909		1910		1911		1912	
	Low.	High.	Low.	High.	Low.	High.	Low.	High.
	Cents.	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*
January	4.65	4.65	4.95	5.15	4.70	4.80	5.40	5.80
February	4.55	4.65	5.15	5.25	4.60	4.70	5.40	5.85
March	4.65	4.95	5.25	5.25	4.70	4.80	5.50	5.85
April	4.95	5.05	5.15	5.25	4.80	4.90	5.10	5.55
May	4.95	5.05	5.15	5.25	4.90	4.90	5.10	5.25
June	4.95	4.95	5.15	5.25	4.90	5.00	5.00	5.25
July	4.85	4.95	5.15	5.15	5.00	5.65	5.00	5.15
August	4.95	5.05	5.15	5.25	5.65	6.20	5.00	5.15
September	5.05	5.30	5.05	5.25	6.25	6.80	5.10	5.15
October	5.15	5.15	4.65	5.05	6.65	6.80	4.90	5.15
November	5.15	5.25	4.60	4.65	6.15	6.65	4.95	4.95
December	4.95	5.25	4.70	4.90	5.80	6.05	4.95	4.95
The year	4.55	5.30	4.60	5.25	4.60	6.80	4.90	5.85

OF 96° POLARIZATION, AT NEW YORK, N. Y.

January	3.67	3.75	4.02	4.18	3.42	3.86	4.39	4.65
February	3.61	3.74	4.08	4.36	3.45	3.80	4.39	4.80
March	3.74	4.00	4.36	4.42	3.67	3.92	4.36	4.67
April	3.86	4.05	4.24	4.36	3.86	3.92	3.98	4.36
May	3.86	3.95	4.24	4.33	3.80	3.86	3.86	4.05
June	3.86	3.92	4.17	4.30	3.83	3.98	3.83	3.98
July	3.92	4.02	4.30	4.36	3.98	4.70	3.77	4.05
August	4.02	4.11	4.30	4.48	4.61	5.36	3.98	4.24
September	4.11	4.24	4.05	4.42	5.25	5.96	4.17	4.36
October	4.20	4.40	3.80	4.00	5.74	5.96	4.05	4.17
November	4.30	4.45	3.80	3.93	5.06	5.74	4.05	4.05
December	4.02	4.33	3.93	4.05	4.61	5.06	3.73	4.05
The year	3.61	4.45	3.80	4.48	3.42	5.96	3.73	4.80

[1] New York prices from Yearbook of United States Department of Agriculture; New Orleans prices from the Louisiana Planter.

TABLE 17.—*Monthly prices of sugar per pound at New York and New Orleans, 1909–1912*—Continued.

STANDARD FINE GRANULATED, AT NEW ORLEANS, LA.

Month.	1909		1910		1911		1912	
	Low.	High.	Low.	High.	Low.	High.	Low.	High.
	Cents.	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*	*Cents.*
January	4.60	4.60	4.90	5.10	4.60	4.80	5.40	5.75
February	4.50	4.60	5.10	5.20	4.60	4.70	5.40	5.90
March	4.50	5.00	5.20	5.25	4.70	4.80	5.50	5.80
April	4.90	5.00	5.15	5.15	4.80	4.90	5.20	5.50
May	4.90	5.00	5.15	5.25	4.90	5.00	5.10	5.20
June	4.80	4.90	5.15	5.15	5.00	5.00	5.00	5.20
July	4.80	4.90	5.15	5.15	5.00	5.45	5.00	5.10
August	4.90	5.00	5.15	5.25	5.15	6.35	5.00	5.20
September	5.00	5.10	5.05	5.25	6.35	6.80	5.00	5.20
October	5.10	5.10	4.65	5.05	6.70	6.80	4.90	5.00
November	5.10	5.20	4.60	4.60	6.20	6.70	4.90	4.90
December	4.90	5.20	4.80	4.80	5.75	6.20	4.90	4.90
The year	4.50	5.20	4.60	5.25	4.60	6.80	4.90	5.90

OF 96° POLARIZATION, AT NEW ORLEANS, LA.

January	3.62	3.69	3.88	4.09	3.18	3.71	4.36	4.48
February	3.61	3.69	.....	.....	.....	.....	4.36	4.36
March	3.61	4.00	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....
June	3.92	3.92	.....	.....	.....	.....	.....	.....
July	3.07	3.98	.....	.....	.....	.....	.....	.....
August	3.00	4.17	.....	.....	.....	.....	.....	.....
September	4.17	4.24	.....	.....	.....	.....	.....	.....
October	4.06	4.24	.....	.....	.....	.....	.....	.....
November	4.00	4.12	3.62	3.69	4.78	4.83	3.80	3.84
December	3.88	4.09	3.65	3.81	4.57	4.81	3.75	3.87
The year	3.00	4.24	3.62	4.09	3.18	4.83	3.75	4.48

PRIME YELLOW CLARIFIED, AT NEW ORLEANS, LA.

January	3.81	4.12	4.25	4.56	3.88	4.12	4.09	5.19
February	3.94	4.09	4.44	4.56	4.03	4.38	4.81	5.59
March	3.94	4.12	4.44	4.78	4.25	4.50	5.12	5.56
April	4.06	4.69	4.69	4.78	4.38	4.53	4.81	5.31
May	4.06	4.25	4.69	4.97	4.38	4.53	4.69	5.81
June	4.00	4.22	4.81	4.97	4.44	4.69	4.62	4.81
July	4.00	4.19	4.81	4.94	4.56	5.12	4.50	4.72
August	4.03	4.25	4.88	5.00	5.00	5.31	4.12	4.69
September	4.12	4.25	5.00	5.00	.....	.....	4.00	4.50
October	4.12	4.44	4.19	5.00	5.75	6.25	3.94	4.44
November	4.19	4.38	3.78	4.28	4.88	5.34	4.00	4.22
December	4.25	4.41	3.84	4.06	4.97	5.16	4.03	4.31
The year	3.81	4.69	3.78	5.00	3.88	6.25	3.94	5.81

TABLE 18.—*Railroad freight rates, per 100 pounds, on refined sugar carried in carloads, over selected routes in the United States, May, 1913.*[1]

From—	To— Chicago, Ill.		Omaha, Nebr.		Atlanta, Ga.	
	Rate per 100 pounds.	Minimum weight of carload.	Rate per 100 pounds.	Minimum weight of carload.	Rate per 100 pounds.	Minimum weight of carload.
	Cents.	*Pounds.*	*Cents.*	*Pounds.*	*Cents.*	*Pounds.*
Bay City, Mich.	11	33,000	38	[2] 33,000	65	[3] 33,000
Colorado sugar-factory points (Longmont, Fort Morgan, Brush, Greeley, etc.)	35	33,000	25	33,000	58	[4] 33,000
	25	60,000				
New Orleans, La.	23	33,000	32	33,000	23	24,000
New York, N. Y.	26	33,000	40	33,000	39	24,000
Salt Lake City, Utah	60	33,000	55	33,000	86	[4] 33,000
	50	60,000	50	60,000	81	[4] 60,000
San Francisco, Cal.	65	36,000	60	36,000	88	[4] 36,000
	60	60,000	55	60,000	83	[4] 60,000

[1] Data furnished by the Bureau of Tariffs, Interstate Commerce Commission.
[2] Minimum weight, Mississippi River to Omaha, 36,000 pounds.
[3] Minimum weight, Cincinnati to Atlanta, 24,000 pounds.
[4] Minimum weight, Memphis to Atlanta, 24,000 pounds.

TABLE 19.—*Sugar imported into the United States from foreign countries and received from Hawaii and Porto Rico, 1901–1912.*[1]

[In the statistics of the foreign trade of the United States the Philippine Islands are treated as a foreign country; all other noncontiguous possessions as parts of the United States. Most of the imported sugar is raw.]

Country or possession from which consigned.	Year ending June 30— 1901–1905 (Average per year.)	1906–1910 (Average per year.)	1911	1912
IMPORTS.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
Cuba	935,736	1,469,948	1,673,803	1,593,317
Philippine Islands	17,446	39,246	115,176	217,785
Dutch East Indies	364,622	305,196	114,039	170,198
British Guiana	66,624	15,056	7,051	13,527
Brazil	78,144	11,552	344	13,482
Danish West Indies	11,015	9,029	1,157	9,022
Santo Domingo	53,666	33,427	12,291	8,841
Peru	41,749	13,019	4,569	6,579
Dutch Guiana	6,505	5,813	3,231	4,266
Austria-Hungary	32,014	3,674	1,000	3,751
United Kingdom	3,006	4,129	19,007	2,930
Canada	1,631	1,135	587	2,877
British West Indies	76,629	9,796	53	2,781
Mexico	2,941	4,355	121	1,256
China	2,401	414	406	574
Guatemala	1,691	1,157	911	441
Germany	123,701	67,100	12,622	285
Hongkong	646	199	247	179
Venezuela	37	169	327	135
Other countries	40,255	8,300	2,047	83
Total imports	1,860,459	2,002,714	1,968,989	2,052,309
SHIPMENTS TO THE UNITED STATES FROM—				
Hawaii	375,547	477,965	505,608	602,733
Porto Rico	107,771	234,539	322,917	367,145
Total, Hawaii and Porto Rico	483,318	712,504	828,525	969,878
Grand total	2,343,777	2,715,218	2,797,514	3,022,187

[1] Compiled from reports of the Foreign Commerce and Navigation of the United States, Bureau of Foreign and Domestic Commerce, Department of Commerce.

TABLE 20.—*Percentage from each country of consignment of sugar imported into the United States, 1901–1912.*[1]

[In the statistics of the foreign trade of the United States, the Philippine Islands are treated as a foreign country; all other noncontiguous possessions, as parts of the United States. Most of the imported sugar is raw.]

Country from which consigned.	Year ending June 30—			
	1901–1905	1906–1910	1911	1912
	Average per year.			
	Per cent.	*Per cent.*	*Per cent.*	*Per cent.*
Cuba	50.3	73.4	85.0	77.6
Philippine Islands	.9	2.0	5.8	10.6
Dutch East Indies	19.6	15.2	5.8	8.3
British Guiana	3.6	.8	.4	.7
Brazil	4.2	.6	(2)	.7
Danish West Indies	.6	.5	.1	.4
Santo Domingo	2.9	1.7	.6	.4
Peru	2.2	.7	.2	.3
Dutch Guiana	.3	.3	.2	.2
Austria-Hungary	1.7	.2	.1	.2
United Kingdom	.2	.2	1.0	.1
Canada	.1	.1		.1
British West Indies	4.1	.5		.1
Mexico	.2	.2	.1	.1
China	.1	(2)		
Guatemala	.1	.1		
Germany	6.6	3.3	.6	.2
Hongkong	(2)	(2)	(2)	
Venezuela	(2)	(2)	(2)	
Other countries	2.3	.2	.1	
Total	100.0	100.0	100.0	100.0

[1] Compiled from reports of the Foreign Commerce and Navigation of the United States, Bureau of Foreign and Domestic Commerce, Department of Commerce.
[2] Less than 0.05 of 1 per cent.

TABLE 21.—*Comparison of raw and refined sugar in the imports into the United States, 1881–1912.*[1]

[Not including receipts into the United States from Hawaii and Porto Rico subsequent to 1900. In the statistics of the foreign trade of the United States, the Philippine Islands are treated as a foreign country; Hawaii and Porto Rico since 1900, and Alaska for the entire period covered below, as part of the United States.]

Kind.	Year ending June 30—							
	1881–1885	1886–1890	1891–1895	1896–1900	1901–1905	1906–1910	1911	1912
	Average per year.							
	Short tons	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*
Raw	1,154,780	1,422,221	1,855,632	1,894,161	1,831,131	1,999,146	1,966,888	2,049,317
Refined	164	61	16,982	56,189	29,328	3,568	2,101	2,992
Total	1,154,944	1,422,282	1,872,614	1,950,350	1,860,459	2,002,714	1,968,989	2,052,309
	Per cent.	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*
Raw	100.0	100.0	99.1	97.1	98.4	99.8	99.9	99.9
Refined	(2)	(2)	.9	2.9	1.6	.2	.1	.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Compiled from annual reports of the Foreign Commerce and Navigation of United States, Bureau of Foreign and Domestic Commerce, Department of Commerce.
[2] Less than 0.05 of 1 per cent.

TABLE 22.—*Imports of sugar into the United States, 1881–1912, by principal customs districts.*[1]

[In the statistics of the foreign trade of the United States, the Philippine Islands are treated as a foreign country; Hawaii and Porto Rico since 1900, and Alaska for the entire period covered below, as part of the United States. Most of the imported sugar is raw.]

Custom district.	Year ending June 30—							
	1881–1885	1886–1890	1891–1895	1896–1900	1901–1905	1906–1910	1911	1912
	Average per year.							
	Short tons	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*	*Short tons*
New York, N. Y.	749,022	839,093	903,577	1,140,794	1,223,355	1,426,388	1,311,829	1,385,715
Philadelphia, Pa.	90,492	237,612	513,737	385,854	280,811	223,276	236,879	210,327
Boston and Charlestown, Mass.	215,165	187,445	200,466	189,986	181,974	184,449	169,586	190,879
New Orleans, La.	12,434	17,293	70,651	68,634	154,585	145,614	211,379	209,033
San Francisco, Cal.	68,054	129,619	163,935	146,040	10,282	19,470	32,879	30,866
Other ports	19,777	11,220	20,248	19,042	9,452	3,517	6,437	25,489
Total	1,154,944	1,422,282	1,872,614	1,950,350	1,860,459	2,002,714	1,968,989	2,052,309
	Per cent.	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*
New York, N. Y.	64.9	59.0	48.3	58.5	65.8	71.2	66.6	67.5
Philadelphia, Pa.	7.8	16.7	27.4	19.8	15.1	11.2	12.0	10.2
Boston and Charlestown, Mass.	18.6	13.2	10.7	9.7	9.8	9.2	8.6	9.3
New Orleans, La.	1.1	1.2	3.8	3.5	8.3	7.3	10.7	10.2
San Francisco, Cal.	5.9	9.1	8.8	7.5	.6	1.0	1.7	1.5
Other ports	1.7	.8	1.0	1.0	.4	.1	.4	1.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Compiled from the annual reports of the Foreign Commerce and Navigation of the United States, Bureau of Foreign and Domestic Commerce, Department of Commerce. Data for 1901–1905 and subsequently are not strictly comparable with data for earlier years, because receipts from Hawaii and Porto Rico, subsequent to 1900, have been omitted from foreign trade, and the sugar received from those possessions in 1901–1905 and subsequently is not represented in the above table.

TABLE 23.—*Production of sugar and shipments to the United States, for Hawaii and Porto Rico, 1901–2 to 1912–13.*[1]

[Chiefly raw.]

Year.	Hawaii (year ending Sept. 30).			Porto Rico (year ending June 30).		
	Production.	Shipped to the United States.		Production.	Shipped to the United States.	
		Quantity.	Per cent of production.		Quantity.	Per cent of production.
	Short tons.	*Short tons.*	*Per cent.*	*Short tons.*	*Short tons.*	*Per cent.*
1901–2	355,611	354,323	99.6	.....	91,909	.....
1902–3	437,991	431,346	98.5	.....	113,072	.....
1903–4	367,475	386,773	105.3	.....	129,616	.....
1904–5	426,248	406,732	95.4	.....	135,660	.....
1905–6	429,213	402,500	93.8	.....	205,272	.....
1906–7	440,017	417,038	94.8	.....	204,075	.....
1907–8	521,123	543,656	104.3	230,094	234,603	102.0
1908–9	535,156	526,984	98.5	277,093	244,226	88.1
1909–10	517,090	526,469	101.8	346,786	284,520	82.0
1910–11	566,821	536,771	94.7	349,840	322,917	92.3
1911–12	595,038	598,268	100.5	371,076	367,145	98.9
1912–13	546,524	537,574	98.4	.....	382,710	.....
Average:						
1901–2 to 1905–6	403,308	396,335	98.3	.....	135,106	.....
1906–7 to 1910–11	516,041	510,184	98.9	[2] 300,953	[2] 271,566	[2] 90.2

[1] Production in Hawaii 1911–12 and 1912–13 as given by Bureau of Statistics, United States Department of Agriculture; other years by Hawaiian Sugar Planters' Association. Production in Porto Rico as given by the treasury department of Porto Rico. Shipments from Hawaii and Porto Rico to the United States, as given by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

[2] Average 1907–8 to 1910–11, inclusive.

TABLE 24.—*Sugar made and cane used for sugar in Hawaii, 1910–11 and 1912–13, by islands.*

[From reports of Bureau of Statistics, United States Department of Agriculture. Data for 1911–12 refer to the year ending Sept. 30, 1912; for 1910–11 the data refer to the entire campaign, which for some factories extended later than Sept. 30, 1911. Sugar made during the year ending Sept. 30, 1911, according to the Hawaiian Sugar Planters' Association, was 566,821 short tons.]

Island.	Sugar made (chiefly raw).						Cane used for sugar.[1]		
	Quantity.			Average per short ton of cane.[1]					
	1910–11	1911–12	1912–13	1910–11	1911–12	1912–13	1910–11	1911–12	1912–13
	Short tons.	*Short tons.*	*Short tons.*	*Lbs.*	*Lbs.*	*Lbs.*	*Short tons.*	*Short tons.*	*Short tons.*
Hawaii	198,830	209,914	197,212	228	233	232	1,744,000	1,799,000	1,702,515
Kauai	100,667	96,845	100,340	219	240	239	919,000	807,000	840,708
Maui	139,894	148,740	124,820	247	277	269	1,133,000	1,074,000	928,590
Oahu	135,087	139,539	124,152	260	255	248	1,039,000	1,094,000	1,003,129
Territory of Hawaii	574,478	595,038	546,524	238	249	244	4,835,000	4,774,000	4,474,942

[1] Computed from incomplete returns.

TABLE 25.—*Production of sorghum sirup in the United States, 1889, 1899, and 1909, by principal States.*

[Census.]

State.	1889	1899	1909
	Gallons.	*Gallons.*	*Gallons.*
Kentucky	2,094,962	1,277,206	2,733,683
Tennessee	2,542,533	2,047,655	2,076,339
Missouri	2,721,240	1,990,987	1,788,391
Arkansas	1,868,952	1,223,691	1,140,532
North Carolina	1,268,946	1,419,570	1,099,346
Illinois	1,110,183	625,939	977,238
Indiana	751,808	579,061	965,086
Alabama	1,242,689	1,168,868	809,361
Georgia	1,342,803	767,024	740,450
Mississippi	972,216	1,162,269	622,356
West Virginia	512,747	450,777	604,201
Oklahoma	31,299	81,891	514,807
Texas	1,749,910	877,232	448,185
Virginia	546,328	555,321	441,189
Ohio	547,630	341,523	354,131
South Carolina	559,216	478,190	262,452
Kansas	1,484,937	735,787	260,680
Iowa	1,386,605	521,212	250,205
Minnesota	340,792	157,605	145,934
Wisconsin	219,070	160,414	139,667
Louisiana	107,763	48,727	47,029
Florida	10,461	----------	22,177
Utah	24,293	28,017	21,847
Michigan	45,524	24,059	21,350
Nebraska	634,146	92,413	14,644
All other States	118,166	157,345	31,102
United States	24,235,219	16,972,783	16,532,382

TABLE 26.—*Sorghum cane area and production in the United States, 1909, by principal States.*

[Census.]

State.	Area.	Production.	Average yield per acre.
	Acres.	*Short tons.*	*Short tons.*
Kentucky	62,327	226,303	3.6
Tennessee	52,907	205,901	3.9
Missouri	45,088	201,206	4.5
Texas	55,027	101,691	1.8
Arkansas	33,071	93,123	2.8
Illinois	15,039	90,287	6.0
North Carolina	21,227	86,462	4.1
Indiana	12,253	79,672	6.5
Alabama	17,819	72,388	4.1
Oklahoma	25,546	64,599	2.5
Georgia	15,612	64,336	4.1
Kansas	15,406	60,821	3.9
Mississippi	17,851	55,359	3.1
West Virginia	8,607	48,094	5.6
Virginia	8,288	41,449	5.0
Iowa	6,225	28,957	4.7
Ohio	4,709	28,644	6.1
South Carolina	8,445	27,612	3.3
Wisconsin	2,281	13,735	6.0
Minnesota	1,709	13,253	7.8
Nebraska	4,034	10,477	2.6
Colorado	3,169	7,161	2.3
Louisiana	1,690	6,073	3.6
California	647	3,021	4.7
New Mexico	2,371	2,819	1.2
Michigan	416	2,765	6.6
Florida	379	2,173	5.7
Utah	340	1,654	4.9
Arizona	586	1,451	2.5
All other States	1,020	5,776	5.7
United States	444,089	1,647,262	3.7

TABLE 27.—*Maple sugar and sirup production in the United States, 1889, 1899, and 1909, by principal States.*

[Census.]

State.	Maple sugar.			Maple sirup.		
	1889	1899	1909	1889	1899	1909
	Pounds.	*Pounds.*	*Pounds.*	*Gallons.*	*Gallons.*	*Gallons.*
Vermont	14,123,921	4,779,870	7,726,817	218,252	160,918	409,953
New York	10,485,623	3,623,540	3,160,300	457,658	413,159	993,242
Pennsylvania	1,651,163	1,429,540	1,188,049	154,650	160,297	391,242
New Hampshire	2,124,515	441,870	558,811	81,997	41,588	111,500
Maryland	156,284	264,160	351,908	1,021	5,825	12,172
Michigan	1,641,402	302,715	293,301	197,775	82,997	269,093
Ohio	1,575,562	613,990	257,592	727,142	923,519	1,323,431
Massachusetts	558,674	192,990	156,952	33,632	27,174	53,091
West Virginia	177,724	141,550	140,060	19,032	14,874	31,176
Virginia	26,991	19,310	44,976	3,468	1,677	6,046
Indiana	67,329	51,900	33,419	180,702	179,576	273,728
Wisconsin	128,410	4,180	27,199	48,006	6,625	124,117
All other States	235,329	63,155	120,822	135,041	38,382	107,627
United States	32,952,927	11,928,770	14,060,206	2,258,376	2,056,611	4,106,418

TABLE 28.—*Production of sugar in countries named, 1901–2 to 1911–12.*

[Substantially the sugar production of the world. Data for 1901–2 to 1905–6 from Willett & Gray, except for a few minor countries; subsequent to 1905–6, from official sources except where otherwise stated. Some figures in this table refer to raw and some to refined sugar, according to the kind stated in the original returns. Some items, especially unofficial data, are subject to revision in case more accurate figures become available.]

Country.	Average per year.		1907–8	1908–9	1909–10	1910–11	1911–12
	1901–2 to 1905–6	1906–7 to 1910–11					
CANE SUGAR.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
British India [1]	2,171,847	2,345,280	2,292,528	2,097,648	2,382,352	2,483,936	2,677,248
Cuba	1,171,810	1,615,152	1,085,616	1,704,416	2,035,600	1,635,200	2,089,920
Java	1,006,968	1,325,184	1,333,920	1,368,640	1,368,640	1,377,600	1,582,560
Hawaii	403,308	516,041	521,123	535,156	517,090	566,821	595,038
Porto Rico	147,392	282,128	230,095	277,093	346,786	349,840	371,076
United States (contiguous)	[2] 362,535	[2] 354,031	[2] 394,240	[2] 414,400	[2] 334,315	[2] 355,040	360,874
Brazil [2]	269,604	275,520	217,280	273,280	278,880	315,840	258,720
Formosa	51,923	146,227	72,240	134,848	226,800	[3] 226,800	[3] 226,800
Philippine Islands [4]	113,128	145,824	167,216	123,872	140,784	164,640	204,960
Argentina	150,820	147,638	124,992	178,192	140,336	163,744	198,464
Queensland	135,968	192,931	207,312	168,448	148,736	236,096	194,096
Mauritius [2]	190,228	232,579	180,880	215,936	277,760	245,616	186,928
Peru [2]	155,426	168,000	148,960	165,760	165,760	181,440	[5] 181,440
Mexico	120,491	153,306	135,856	157,808	163,072	178,080	170,912
British Guiana	130,321	[4] 119,549	[4] 129,024	[4] 121,520	[4] 113,120	[4] 121,296	[4] 111,328
Santo Domingo	[6] 54,676	[4] 82,813	[4] 69,664	[4] 77,840	[4] 102,368	[4] 101,472	[4] 107,968
Natal	30,831	65,386	35,840	86,800	[7] 86,800	90,384	101,360
Fiji	45,584	70,336	76,496	74,032	77,168	77,056	81,312
Japan	[5]	61,578	55,104	59,472	64,848	72,464	[8] 72,464
Egypt	82,992	48,384	29,120	40,320	62,720	[3] 62,720	[3] 62,720
Trinidad and Tobago	50,818	59,920	56,672	54,768	59,360	58,240	52,640
Guadeloupe [4]	41,913	40,992	39,760	27,776	47,264	47,264	[8] 47,264
Reunion [4]	40,732	46,390	52,080	43,456	36,960	48,160	44,800
Martinique [4]	35,869	42,045	39,648	41,888	44,016	44,016	[8] 44,016
Jamaica	16,272	29,434	31,920	26,880	21,056	31,696	31,808
Portuguese East Africa	5,075	11,604	3,360	14,560	19,040	16,800	30,240
Barbados	52,425	42,381	42,560	40,768	20,496	45,248	29,904
Spain	26,503	19,354	17,696	15,456	23,856	22,400	23,520
Dutch Guiana	14,514	13,126	13,104	13,216	12,096	13,328	[8] 13,328
New South Wales	22,854	22,714	32,704	17,136	16,464	21,056	19,040
Antigua	12,062	13,933	16,576	14,896	10,304	15,792	13,104
St. Christopher-Nevis	15,808	15,187	16,688	13,104	13,776	14,560	[8] 14,560
Perak	18,644	13,350	13,664	12,768	[9] 13,440	[9] 13,440	[9] 13,440
Danish West Indies	14,112	11,760	14,112	4,928	13,328	12,992	[8] 12,992
Guatemala [2]	8,529	7,840	7,840	7,840	7,840	7,840	7,840
Salvador [2]	6,458	6,720	5,600	6,720	6,720	7,840	7,840
St. Lucia	5,155	5,869	5,600	6,160	5,600	5,936	5,040
Costa Rica [2]	2,902	2,912	2,240	3,360	3,360	3,360	3,360
Nicaragua	4,899	7,392	5,600	11,200	[7] 11,200	3,360	[8] 3,360
British Honduras	671	650	672	672	448	784	784
St. Vincent	701	291	224	224	336	336	336
Dominica	246	112	112	112	112	112	112
Montserrat	744	358	448	112	112	224	112
Venezuela	3,360	[5]	[5]	[5]	[5]	[5]	[5]
Total cane sugar	7,197,118	8,762,221	7,926,386	8,653,481	9,421,119	9,440,869	10,255,628

[1] The figures represent the production of about 97 per cent of the area under sugar cane and 90 per cent of the area under all sugar crops.
[2] Unofficial.
[3] Data for 1909–10.
[4] Exports.
[5] No data.
[6] Including Haiti.
[7] Data for 1908–9.
[8] Year preceding.
[9] Average for 1907–8 and 1908–9.

TABLE 28.—*Production of sugar in countries named, 1901–2 to 1911–12*—Continued.

Country.	Average per year.		1907–8	1908–9	1909–10	1910–11	1911–12
	1901–2 to 1905–6	1906–7 to 1910–11					
BEET SUGAR.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
Russia	1,209,074	1,454,522	1,380,736	1,242,192	1,122,688	2,108,624	2,025,856
Germany	2,207,130	2,444,288	2,357,488	2,291,968	2,245,824	2,854,768	1,650,992
Austria-Hungary	1,306,525	2,520,019	2,556,016	2,528,800	2,373,008	2,675,520	2,259,888
United States (contiguous)	235,517	477,104	463,680	425,600	[3] 501,682	510,720	599,500
France	986,155	748,563	713,440	785,568	796,880	705,600	501,760
Netherlands	170,392	198,464	174,720	217,280	199,360	219,520	302,400
Belgium	278,682	278,454	250,208	272,944	263,872	299,040	258,720
Italy	104,248	[4] 152,544	[4] 150,080	[4] 182,560	[4] 122,080	[4] 190,400	[4] 184,800
Sweden	112,537	156,845	123,200	150,080	140,000	191,744	135,520
Spain	80,417	97,440	104,160	119,840	95,200	78,400	95,200
Denmark	55,458	76,832	58,016	73,136	69,216	110,768	58,128
Roumania	210,718	[4] 29,344	[4] 25,760	[4] 28,000	[4] 30,240	[5] 30,240	[5] 30,240
Canada: Ontario	9,055	10,461	10,528	10,528	10,528	10,304	11,088
Servia	970	[6] 8,176	[6] 8,176	[6] 8,176	[6] 8,176	[6] 8,176	[6] 8,176
Bulgaria [4]	([7])	6,720	8,960	7,840	6,720	[5] 6,720	[5] 6,720
Switzerland	2,531	[4] 3,942	[4] 4,144	[4] 4,480	[4] 4,032	[5] 4,032	[5] 4,032
Greece	([7])	986	448	1,120	[8] 1,120	[8] 1,120	[8] 1,120
Total beet sugar	6,969,409	7,664,704	7,389,760	7,350,112	6,990,626	9,005,696	7,134,140
Total beet and cane sugar	14,166,527	16,426,925	15,316,146	16,003,593	16,411,745	18,446,565	17,389,768

[1] Sugar made from "beets entering factories."
[2] Central Union for Beet Sugar Industry.
[3] Census for 1909.
[4] Unofficial.
[5] Data for 1909–10.
[6] Average production as unofficially estimated.
[7] No data.
[8] Data for 1908–9.

TABLE 29.—*Percentage of the "world" sugar crop produced in each principal country, 1901–2 to 1911–12.*[1]

Country.	Average per year.		1907–8	1908–9	1909–10	1910–11	1911–12
	1901–2 to 1905–6	1906–7 to 1910–11					
	Per cent.	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*
British India	15.3	14.3	15.0	13.1	14.5	13.5	15.4
United States and insular possessions	8.9	10.8	11.6	11.1	11.2	10.6	12.3
Cuba	8.3	9.8	7.1	10.7	12.4	8.9	12.0
Russia	8.5	8.9	9.0	7.8	6.8	11.4	11.6
Germany	15.6	14.9	15.4	14.3	13.7	15.5	9.5
Java	7.1	8.1	8.7	8.6	8.3	7.5	9.1
Austria-Hungary	9.2	9.3	10.2	9.6	8.4	9.1	7.2
France	7.0	4.6	4.7	4.9	4.9	3.8	2.9
Netherlands	1.2	1.2	1.1	1.4	1.2	1.2	1.7
Brazil	1.9	1.7	1.4	1.7	1.7	1.7	1.5
Belgium	2.0	1.7	1.6	1.8	1.6	1.6	1.5
Formosa	.4	.9	.5	.8	1.4	1.2	1.3
Argentina	1.1	.9	.8	1.1	.9	.9	1.1
Australian Commonwealth: Queensland	1.0	1.2	1.4	1.1	.9	1.3	1.1
Mauritius	1.3	1.4	1.2	1.3	1.7	1.3	1.1
Italy	.7	.9	1.0	1.1	.7	1.0	1.1
Peru	1.1	1.0	1.0	1.0	1.0	1.0	1.0
Mexico	.9	.9	.9	1.0	1.0	1.0	1.0
Sweden	.8	1.0	.8	.9	.9	1.0	.8
Spain	.8	.7	.8	.8	.7	.5	.7
British Guiana	.9	.7	.8	.8	.7	.7	.6
Santo Domingo	.4	.5	.5	.5	.6	.6	.6
Other countries	5.6	4.6	4.5	4.6	4.8	4.7	4.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] See notes to Table 28.

TABLE 30.—*Percentage of cane and beet sugar in the total "world" production, 1901–2 to 1911–12.*[1]

Year.	Cane sugar.		Beet sugar.		Total.
	Quantity.	Per cent of total.	Quantity.	Per cent of total.	
Average:	*Short tons.*	*Per cent.*	*Short tons.*	*Per cent.*	*Short tons.*
1901–2 to 1905–6	7,197,118	50.8	6,969,409	49.2	14,166,527
1906–7 to 1910–11	8,762,221	53.3	7,664,704	46.7	16,426,925
1907–8	7,926,386	51.8	7,389,760	48.2	15,316,146
1908–9	8,653,481	54.1	7,350,112	45.9	16,003,593
1909–10	9,421,119	57.4	6,990,626	42.6	16,411,745
1910–11	9,440,869	51.2	9,005,696	48.8	18,446,565
1911–12	10,255,628	59.0	7,134,140	41.0	17,389,768

[1] See notes to Table 28.

TABLE 31.—*International trade in sugar, calendar years 1901–1911.*

EXPORTS.

Country from which exported.	Average per year.		1907	1908	1909	1910	1911
	1901–1905	1906–1910					
	Short tons.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
Cuba	1,009,172	1,461,755	1,455,219	995,509	1,603,323	1,932,871	[1] 1,932,871
Dutch East Indies	1,004,045	1,306,083	1,316,112	1,411,847	1,386,964	1,316,899	[2] 1,476,151
Germany [3]	1,037,362	995,500	1,007,630	921,056	941,299	771,601	945,023
Austria-Hungary	700,005	826,347	809,430	884,505	878,531	743,306	667,479
France	402,946	284,870	365,630	270,410	267,879	211,536	[2] 146,823
Mauritius	185,037	214,749	215,672	217,208	197,700	237,814	261,408
Russia	173,156	204,936	198,458	329,131	225,953	164,116	500,064
Belgium	177,803	171,896	189,782	146,573	159,660	132,632	180,080
Netherlands	156,236	165,717	149,984	169,898	168,048	160,631	216,179
Philippine Islands	96,251	143,940	141,003	159,541	142,558	133,898	230,039
Peru	137,828	136,783	121,931	137,668	138,175	135,424	[1] 135,424
British Guiana [4]	128,808	121,047	112,825	129,039	121,557	113,068	111,292
Santo Domingo	66,724	73,149	54,105	69,703	77,822	102,413	[2] 96,749
Fiji Islands	50,338	65,824	74,589	74,087	68,127	69,172	81,574
Brazil	86,293	56,590	14,173	34,808	75,489	[2] 64,841	[2] 39,912
Trinidad and Tobago [4]	48,545	49,833	51,823	44,372	50,770	51,797	42,489
Reunion	37,129	44,774	51,257	52,066	43,408	36,927	[1] 36,927
Martinique	32,596	42,554	40,703	39,605	41,864	44,043	[1] 44,043
Guadaloupe	39,935	41,074	42,946	39,744	27,791	47,253	[1] 47,253
Barbados	53,710	38,131	38,054	36,119	17,937	40,218	30,785
United Kingdom	39,618	37,772	37,710	29,636	36,131	35,128	32,005
British India	27,143	22,784	23,292	23,178	18,453	25,693	22,092
China	35,861	12,824	7,447	16,100	11,293	17,726	16,793
Egypt	41,220	5,329	4,603	4,319	4,943	7,533	11,908
Argentina	31,296	63	71	20	44	61	75
Other countries	140,894	285,104	257,753	233,730	288,966	354,843	[2] 248,102
Total	5,939,951	6,809,428	6,782,202	6,469,872	6,994,685	6,951,444	7,553,540

[1] Year preceding.
[2] Preliminary.
[3] Not including free ports prior to Mar. 1, 1906.
[4] Year beginning Apr. 1.

TABLE 31.—*International trade in sugar, calendar years 1901–1911*—Continued.

IMPORTS.

Country into which imported.	Average per year.		1907	1908	1909	1910	1911
	1901–1905	1906–1910					
	Short tons.	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*	*Short tons.*
United States	1,874,989	1,947,656	1,936,111	1,859,350	1,908,448	2,097,538	2,067,103
United Kingdom	1,691,729	1,770,275	1,767,861	1,747,596	1,831,663	1,793,944	1,859,430
British India	325,098	608,257	536,989	592,545	627,030	673,367	635,570
China	248,125	349,618	381,592	277,484	365,211	287,422	287,717
Canada	188,845	240,303	222,501	219,655	261,279	267,246	299,883
Japan	236,839	195,347	219,759	221,569	149,434	133,563	87,636
Turkey	139,707	[1] 151,309	[1] 151,309	[1] 151,309	[1] 151,309	[1] 151,309	[1] 151,309
France	108,998	126,616	119,083	127,132	119,279	156,308	[2] 189,661
Switzerland	89,915	101,897	102,775	100,710	100,504	111,671	115,431
Persia [3]	85,316	99,070	95,712	93,651	100,623	[4] 100,623	[4] 100,623
Netherlands	103,055	75,740	98,270	70,579	78,018	70,836	102,183
Chili	49,993	66,257	62,558	53,404	76,881	79,182	95,485
Singapore	52,345	56,706	51,276	45,632	62,670	56,718	[5] 56,718
New Zealand	43,373	50,828	37,794	51,332	58,221	57,766	61,979
Norway	40,234	45,500	43,546	43,537	49,339	50,898	53,114
Finland	34,541	45,484	43,842	45,084	48,788	48,043	49,091
Australia	77,548	45,145	6,946	21,959	111,662	38,089	37,269
British South Africa	[6]	43,848	53,233	45,743	33,661	30,174	37,353
Egypt	18,885	42,802	27,436	58,703	54,202	35,509	50,448
Portugal	33,816	36,813	36,483	36,660	38,594	36,283	36,283
Argentina	268	36,094	47,975	45,827	21,842	62,692	57,298
Denmark	34,514	31,562	26,541	41,326	42,162	25,152	12,739
Uruguay [7]	20,803	26,606	23,416	28,543	[8] 28,543	[3] 28,543	[8] 28,543
Italy	15,676	13,550	26,166	5,398	13,057	7,215	10,418
Other countries	240,023	278,322	265,982	297,741	305,369	303,355	[2] 315,611
Total	5,754,635	6,485,605	6,385,156	6,282,469	6,637,789	6,703,446	6,798,895

[1] Data for year beginning Mar. 14, 1905.
[2] Preliminary.
[3] Year beginning Mar. 21.
[4] Data for 1909.
[5] Year preceding.
[6] South African Customs Union formed in 1905. Returns for separate colonies included in "Other countries" for years prior to 1906.
[7] Year beginning July 1.
[8] Data for 1908.

NOTE.—This table covers substantially the trade of the world. It should not be expected that the world export and import totals for any year will agree. Among sources of disagreement are these: (1) Different periods of time covered in the "year" of the various countries; (2) imports received in year subsequent to year of export; (3) want of uniformity in classification of goods among countries; (4) different practices and varying degrees of failure in recording countries of origin and ultimate destination; (5) different practices of recording reexported goods; (6) opposite methods of treating free ports; (7) clerical errors, which, it may be assumed, are not infrequent; (8) losses at sea.

The exports given are domestic exports, and the imports given are imports for consumption as far as it is feasible and consistent so to express the facts. While there are some inevitable omissions, on the other hand there are some duplications because of reshipments that do not appear as such in official reports. For the United Kingdom, import figures refer to imports for consumption when available; otherwise total imports less exports of "foreign and colonial merchandise."

The following kinds and grades have been included under the head of sugar: Brown, white, candied, caramel, *chancaca* (Peru), crystal cube, maple, muscovado, panela. The following have been excluded: "Candy" (meaning confectionery), confectionery, glucose, grape sugar, jaggery, molasses, and sirup.

Some figures in this table refer to raw and some to refined sugar, according to the kind reported in the original returns. In the statistics of the foreign trade of the United States, the Philippine Islands are treated as a foreign country; all other noncontiguous possessions, as part of the United States.

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